

RECEIVED

JUN 10 2003

TECH CENTER 1600



1600

P#17

RAW SEQUENCE LISTING

DATE: 06/03/2003

PATENT APPLICATION: US/09/627,600B

TIME: 11:18:19

Input Set : A:\57109 (71699).txt

Output Set: N:\CRF4\06032003\I627600B.raw

4 <110> APPLICANT: Isaacs, John T.
 5 Denmeade, Samuel R.
 6 Lilja, Hans
 8 <120> TITLE OF INVENTION: ACTIVATION OF PEPTIDE PRODRUGS BY hK2
 10 <130> FILE REFERENCE: 07265-191001
 12 <140> CURRENT APPLICATION NUMBER: US 09/627,600B
 13 <141> CURRENT FILING DATE: 2000-07-28
 15 <150> PRIOR APPLICATION NUMBER: US 60/146,316
 16 <151> PRIOR FILING DATE: 1999-07-29
 18 <160> NUMBER OF SEQ ID NOS: 135
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 11
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 28 His Lys Gly Gly Lys Ala His Arg Gly Thr Gln
 29 1 5 10
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 11
 33 <212> TYPE: PRT
 34 <213> ORGANISM: Homo sapiens
 36 <400> SEQUENCE: 2
 37 Ser Ser Ser Tyr Glu Glu Arg Arg Leu His Tyr
 38 1 5 10
 40 <210> SEQ ID NO: 3
 41 <211> LENGTH: 11
 42 <212> TYPE: PRT
 43 <213> ORGANISM: Homo sapiens
 45 <400> SEQUENCE: 3
 46 Ser Ser Ser Tyr Glu Glu Arg Arg Leu His Tyr
 47 1 5 10
 49 <210> SEQ ID NO: 4
 50 <211> LENGTH: 11
 51 <212> TYPE: PRT
 52 <213> ORGANISM: Homo sapiens
 54 <400> SEQUENCE: 4
 55 Val Gln Lys Asp Val Ser Gln Arg Ser Ile Tyr
 56 1 5 10
 58 <210> SEQ ID NO: 5
 59 <211> LENGTH: 11
 60 <212> TYPE: PRT
 61 <213> ORGANISM: Homo sapiens

P.6

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/627,600B

DATE: 06/03/2003

TIME: 11:18:19

Input Set : A:\57109 (71699).txt

Output Set: N:\CRF4\06032003\I627600B.raw

63 <400> SEQUENCE: 5
64 Asp Lys Ser Lys Gly His Phe His Met Ile Val
65 1 5 10
67 <210> SEQ ID NO: 6
68 <211> LENGTH: 11
69 <212> TYPE: PRT
70 <213> ORGANISM: Homo sapiens
72 <400> SEQUENCE: 6
73 Gln Cys Ser Asn Thr Glu Lys Arg Leu Trp Val
74 1 5 10
76 <210> SEQ ID NO: 7
77 <211> LENGTH: 11
78 <212> TYPE: PRT
79 <213> ORGANISM: Homo sapiens
81 <400> SEQUENCE: 7
82 Leu His Pro Ala His Gln Asp Arg Leu Gln His
83 1 5 10
85 <210> SEQ ID NO: 8
86 <211> LENGTH: 11
87 <212> TYPE: PRT
88 <213> ORGANISM: Homo sapiens
90 <400> SEQUENCE: 8
91 Lys Ile Ser Tyr Pro Ser Ser Arg Thr Glu Glu
92 1 5 10
94 <210> SEQ ID NO: 9
95 <211> LENGTH: 11
96 <212> TYPE: PRT
97 <213> ORGANISM: Homo sapiens
99 <400> SEQUENCE: 9
100 Gly Lys Ser Gln Asn Gln Val Arg Ile Pro Ser
101 1 5 10
103 <210> SEQ ID NO: 10
104 <211> LENGTH: 11
105 <212> TYPE: PRT
106 <213> ORGANISM: Homo sapiens
108 <400> SEQUENCE: 10
109 Ser Ser Ser Tyr Glu Glu Arg Arg Leu Asn Tyr
110 1 5 10
112 <210> SEQ ID NO: 11
113 <211> LENGTH: 11
114 <212> TYPE: PRT
115 <213> ORGANISM: Homo sapiens
117 <400> SEQUENCE: 11
118 Leu Ser His Glu Gln Lys Gly Arg Tyr Lys Gln
119 1 5 10
121 <210> SEQ ID NO: 12
122 <211> LENGTH: 3
123 <212> TYPE: PRT
124 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

DATE: 06/03/2003

PATENT APPLICATION: US/09/627,600B

TIME: 11:18:19

Input Set : A:\57109 (71699).txt

Output Set: N:\CRF4\06032003\I627600B.raw

126 <400> SEQUENCE: 12
127 Lys Arg Arg
128 1
130 <210> SEQ ID NO: 13
131 <211> LENGTH: 3
132 <212> TYPE: PRT
133 <213> ORGANISM: Homo sapiens
135 <400> SEQUENCE: 13
136 Ser Arg Arg
137 1
139 <210> SEQ ID NO: 14
140 <211> LENGTH: 3
141 <212> TYPE: PRT
142 <213> ORGANISM: Homo sapiens
144 <400> SEQUENCE: 14
145 Ala Arg Arg
146 1
148 <210> SEQ ID NO: 15
149 <211> LENGTH: 3
150 <212> TYPE: PRT
151 <213> ORGANISM: Homo sapiens
153 <400> SEQUENCE: 15
154 His Arg Arg
155 1
157 <210> SEQ ID NO: 16
158 <211> LENGTH: 3
159 <212> TYPE: PRT
160 <213> ORGANISM: Homo sapiens
162 <400> SEQUENCE: 16
163 Gln Arg Arg
164 1
166 <210> SEQ ID NO: 17
167 <211> LENGTH: 3
168 <212> TYPE: PRT
169 <213> ORGANISM: Homo sapiens
171 <400> SEQUENCE: 17
172 Ala Phe Arg
173 1
175 <210> SEQ ID NO: 18
176 <211> LENGTH: 3
177 <212> TYPE: PRT
178 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 18
181 Ala Gln Arg
182 1
184 <210> SEQ ID NO: 19
185 <211> LENGTH: 3
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

DATE: 06/03/2003

PATENT APPLICATION: US/09/627,600B

TIME: 11:18:19

Input Set : A:\57109 (71699).txt

Output Set: N:\CRF4\06032003\I627600B.raw

189 <400> SEQUENCE: 19
190 Ala Lys Arg
191 1
193 <210> SEQ ID NO: 20
194 <211> LENGTH: 3
195 <212> TYPE: PRT
196 <213> ORGANISM: Homo sapiens
198 <400> SEQUENCE: 20
199 Ala Arg Lys
200 1
202 <210> SEQ ID NO: 21
203 <211> LENGTH: 3
204 <212> TYPE: PRT
205 <213> ORGANISM: Homo sapiens
207 <400> SEQUENCE: 21
208 Ala His Arg
209 1
211 <210> SEQ ID NO: 22
212 <211> LENGTH: 4
213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 22
217 Gln Lys Arg Arg
218 1
220 <210> SEQ ID NO: 23
221 <211> LENGTH: 4
222 <212> TYPE: PRT
223 <213> ORGANISM: Homo sapiens
225 <400> SEQUENCE: 23
226 Lys Ser Arg Arg
227 1
229 <210> SEQ ID NO: 24
230 <211> LENGTH: 4
231 <212> TYPE: PRT
232 <213> ORGANISM: Homo sapiens
234 <400> SEQUENCE: 24
235 Ala Lys Arg Arg
236 1
238 <210> SEQ ID NO: 25
239 <211> LENGTH: 4
240 <212> TYPE: PRT
241 <213> ORGANISM: Homo sapiens
243 <400> SEQUENCE: 25
244 Lys Lys Arg Arg
245 1
247 <210> SEQ ID NO: 26
248 <211> LENGTH: 4
249 <212> TYPE: PRT
250 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/627,600B

DATE: 06/03/2003

TIME: 11:18:19

Input Set : A:\57109 (71699).txt

Output Set: N:\CRF4\06032003\I627600B.raw

252 <400> SEQUENCE: 26
253 His Lys Arg Arg
254 1
256 <210> SEQ ID NO: 27
257 <211> LENGTH: 4
258 <212> TYPE: PRT
259 <213> ORGANISM: Homo sapiens
261 <400> SEQUENCE: 27
262 Lys Ala Phe Arg
263 1
265 <210> SEQ ID NO: 28
266 <211> LENGTH: 4
267 <212> TYPE: PRT
268 <213> ORGANISM: Homo sapiens
270 <400> SEQUENCE: 28
271 Lys Ala Gln Arg
272 1
274 <210> SEQ ID NO: 29
275 <211> LENGTH: 4
276 <212> TYPE: PRT
277 <213> ORGANISM: Homo sapiens
279 <400> SEQUENCE: 29
280 Lys Ala Lys Arg
281 1
283 <210> SEQ ID NO: 30
284 <211> LENGTH: 4
285 <212> TYPE: PRT
286 <213> ORGANISM: Homo sapiens
288 <400> SEQUENCE: 30
289 Lys Ala Arg Lys
290 1
292 <210> SEQ ID NO: 31
293 <211> LENGTH: 4
294 <212> TYPE: PRT
295 <213> ORGANISM: Homo sapiens
297 <400> SEQUENCE: 31
298 Lys Ala His Arg
299 1
301 <210> SEQ ID NO: 32
302 <211> LENGTH: 4
303 <212> TYPE: PRT
304 <213> ORGANISM: Homo sapiens
306 <400> SEQUENCE: 32
307 Lys Arg Arg Leu
308 1
310 <210> SEQ ID NO: 33
311 <211> LENGTH: 4
312 <212> TYPE: PRT
313 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/627,600B

DATE: 06/03/2003
TIME: 11:18:20

Input Set : A:\57109 (71699).txt
Output Set: N:\CRF4\06032003\I627600B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:53; Xaa Pos. 1,5
Seq#:54; Xaa Pos. 1,5
Seq#:55; Xaa Pos. 1,5
Seq#:56; Xaa Pos. 1,5
Seq#:57; Xaa Pos. 1,5
Seq#:58; Xaa Pos. 1,5
Seq#:59; Xaa Pos. 1,5
Seq#:60; Xaa Pos. 1,5
Seq#:61; Xaa Pos. 1,5
Seq#:62; Xaa Pos. 1,5
Seq#:63; Xaa Pos. 1,6
Seq#:64; Xaa Pos. 1,10
Seq#:65; Xaa Pos. 1,9
Seq#:110; Xaa Pos. 8
Seq#:119; Xaa Pos. 5
Seq#:122; Xaa Pos. 6
Seq#:123; Xaa Pos. 5,6